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Oct 22, 1987

DERWENT-ACC-NO: 1987-292938

DERWENT-WEEK: 198742

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TITLE: Bio:sensor for rapid analysis of heavy metal ions - with phyto-chelating peptide as reactive biochemical component immobilised on transducer

INVENTOR: HILPERT, R

PRIORITY-DATA: 1986DE-3634573 (October 10, 1986)

PATENT-FAMILY:

| PUB-NO | PUB-DATE | LANGUAGE | PAGES | MAIN-IPC |
|--------------------|-------------------|----------|-------|----------|
| DE 3634573 C | October 22, 1987 | | 005 | |
| DE 3776679 G | March 26, 1992 | | 000 | |
| <u>EP 263948 A</u> | April 20, 1988 | G | 000 | |
| <u>EP 263948 B</u> | February 12, 1992 | | 000 | |

INT-CL (IPC): C12M 1/40; G01N 21/00; G01N 27/12; G01N 33/48; H01L 29/78; H01L 41/08

ABSTRACTED-PUB-NO: DE 3634573C

BASIC-ABSTRACT:

Biosensor comprises a reactive biochemical component, esp. a phytochelatin peptide, immobilised on a transducer. Suitable transducers are field effect transistor units, with a layer of phytochelatin immobilised on the gate; piezoelectric crystals coated with a layer of immobilised phytochelatin; and optical conductors with a layer of immobilised phytochelatin.

USE - On contact with aq. solns. of heavy metal ions, complexes with the phytochelatin lead to a change in the transducer output, so that the devices provide a rapid means of analysis of heavy metal ions.

ABSTRACTED-PUB-NO:

EP 263948B EQUIVALENT-ABSTRACTS:

A biosensor for detecting heavy metals with a biological component which is immobilised on a transducer, characterised in that at least one peptide from the group of the phytochelatin is used as the biological component. (7pp)